Conditions Report

Not present to very low concentrations of *Karenia brevis* (commonly known as Florida red tide) are present alongshore Bay County, Florida. No respiratory irritation is expected alongshore northwest Florida, Monday, October 24 through Thursday, October 27.

Check [http://tidesandcurrents.noaa.gov/hab/beach_conditions.html](http://tidesandcurrents.noaa.gov/hab/beach_conditions.html) for recent, local observations.

Analysis

Up to ‘very low a’ *Karenia brevis* concentrations are present alongshore northwest Florida (FWRI; 10/11-10/18) and are not present alongshore Baldwin County, Alabama (ADPH; 10/20). Sampling from alongshore Alabama on 10/18 confirmed *K. brevis* is not present where previous sampling indicated up to ‘very low a’ concentrations (ADPH). No new samples have been received from alongshore northwest Florida since previous sampling on 10/18 identified ‘very low a’ *K. brevis* concentrations in the bay region of Bay County (FWRI).

In recent ensemble imagery (MODIS Aqua, 10/21), patches of elevated to very high chlorophyll (2 to >20 $\mu$g/L) with the optical characteristics of *K. brevis* are present alongshore northwest Florida from Indian Pass in Franklin County to Laguna Beach of Bay County, extending up to 6 miles offshore. Additional sampling alongshore northwest Florida from Franklin to Walton counties, where *K. brevis* has not been detected, is recommended.

Davis, Keeney

Wind conditions from Panama City Beach, FL

Wind speed and direction are averaged over 12 hours from buoy measurements. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts. Wind observation and forecast data provided by NOAA’s National Weather Service (NWS).

Wind Analysis

**Escambia to Gulf counties:** North to northeast winds (10kn, 5m/s) today. East winds (10-20kn, 5-10m/s) Tuesday through Thursday.
Satellite chlorophyll image and forecast winds for October 25, 2016 06Z with points representing cell concentration sampling data from October 14 to 21: red (high), orange (medium), yellow (low b), brown (low a), blue (very low b), purple (very low a), pink (present), and green (not present). For a list of sample providers and a key to the cell concentration categories, please see the HAB-OFS bulletin guide:
http://tidesandcurrents.noaa.gov/hab/hab_publication/habfs_bulletin_guide.pdf

Verified and suspected HAB areas shown in red. Other areas with *K. brevis* optical characteristics shown in yellow (see p. 1 analysis for interpretation).